

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/075339 A2

(51) International Patent Classification⁷: B82B 3/00

(21) International Application Number:
PCT/IL2005/000133

(22) International Filing Date: 3 February 2005 (03.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/541,248 4 February 2004 (04.02.2004) US
60/554,913 22 March 2004 (22.03.2004) US
10/854,746 27 May 2004 (27.05.2004) US

(71) Applicant (for all designated States except US): YISSUM
RESEARCH DEVELOPMENT COMPANY OF THE
HEBREW UNIVERSITY OF JERUSALEM [IL/IL];
Hi Tech Park, Edmond Safra Campus, Givat Ram, 91390
Jerusalem (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BANIN, Uri [IL/IL];

37 Yasmin Street, 90805 Mevasseret Zion (IL). MOKARI,
Taleb [IL/IL]; Givat Ram 4/208, P.O.B. 39183, 91391
Jerusalem (IL).

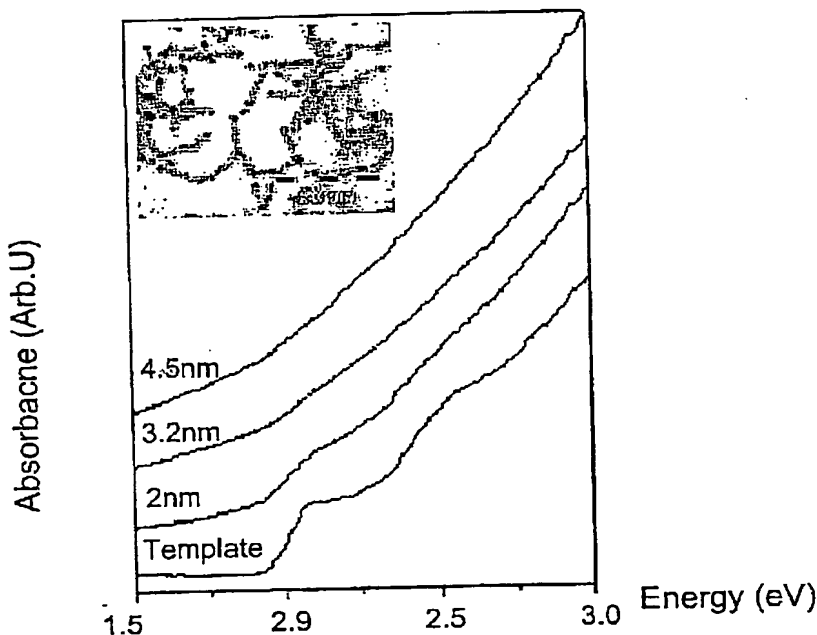
(74) Agent: REINHOLD COHN AND PARTNERS; P.O.Box
4060, 61040 Tel Aviv (IL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: NOVEL NANOSTRUCTURES AND METHOD FOR SELECTIVE PREPARATION



(57) Abstract: The present invention provides novel nanostructure composed of at least one elongated structure element, an elongated structure element of said nanostructure bearing a different zone made of metal, metal alloy, conductive polymer or semiconductor and selectively grown onto at least one of the end portions of the elongated structure element. The present invention further provides a selective method for forming in a liquid medium, such nanostructures.



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *without international search report and to be republished upon receipt of that report*